

Title (en)
SLOTTED CYLINDER ANTENNA

Title (de)
SCHLITZZYLINDERANTENNE

Title (fr)
ANTENNE CYLINDRIQUE A FENTES

Publication
EP 1652270 A4 20070718 (EN)

Application
EP 04756230 A 20040628

Priority
• US 2004020632 W 20040628
• US 61929903 A 20030714

Abstract (en)
[origin: US2005012673A1] An antenna (100) for RF communications. The antenna includes a radiating member (102) which is substantially tubular so as to define a cavity (104) therein. The radiating member (102) is made of a conductive material having a non-conductive slot (106) extending from a first portion (108) of the radiating member (102) to a second portion (110). An impedance matching device (120) is electrically connected to the radiating member (102) via a conductor (134) to match an impedance of the radiating member (102) with an impedance of a signal source or an impedance of a load. The impedance matching device (120), the conductor (134), and at least a portion of the radiating member radiating element (102) can be formed from a single conductive sheet, or molded or extruded as a single conductive structure.

IPC 8 full level
H01Q 13/10 (2006.01); **H01Q 13/12** (2006.01)

CPC (source: EP KR US)
H01Q 13/085 (2013.01 - KR); **H01Q 13/103** (2013.01 - KR); **H01Q 13/12** (2013.01 - EP KR US)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 2005008836A1

Designated contracting state (EPC)
DE FI FR GB IT SE

DOCDB simple family (publication)
US 2005012673 A1 20050120; US 7079081 B2 20060718; CA 2531866 A1 20050127; CA 2531866 C 20100810; CN 1823447 A 20060823; CN 1823447 B 20100915; DE 602004016753 D1 20081106; EP 1652270 A1 20060503; EP 1652270 A4 20070718; EP 1652270 B1 20080924; JP 2007521756 A 20070802; JP 4098818 B2 20080611; KR 100756810 B1 20070907; KR 20060035739 A 20060426; TW 200503329 A 20050116; TW I279026 B 20070411; WO 2005008836 A1 20050127

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